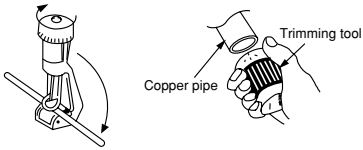




1 Preparation of Pipe

- Use a pipe cutter to cut the copper pipe.



CAUTION

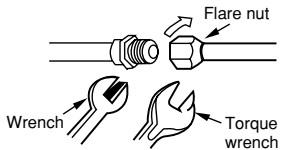
- Jagged edge will cause leakage.
- Point the side to be trimmed downwards during trimming to prevent copper chips from entering the pipe.
- Before flaring, please insert the flare nut into the pipe.



Outer Diameter (mm)	A (mm)	
	For R410A tool	For R22 tool
6.35 (1/4")	0 ~ 0.5	1.0
9.52 (3/8")	0 ~ 0.5	1.0

2 Pipe Connection

- Please be careful when bending the copper pipe.
- Applied frozen grease to the connection points and then screw in manually. After that, use a torque wrench to tighten the connection.

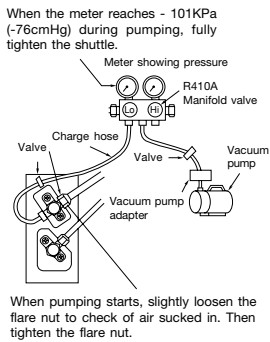


	Outer dia. of pipe	Torque N·m (kgf · cm)
Small dia. side	6.35 (1/4")	13.7 ~ 18.6 (140 ~ 190)
Large dia. side	9.52 (3/8")	34.3 ~ 44.1 (350 ~ 450)
Valve head cap	Small dia. side	6.35 (1/4") 19.6 ~ 24.5 (200 ~ 250)
	Large dia. side	9.52 (3/8") 19.6 ~ 24.5 (200 ~ 250)
Valve core cap		12.3 ~ 15.7 (125 ~ 160)

3 Removal Of Air From The Pipe And Gas Leakage Inspection

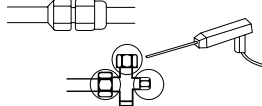
Procedures of using Vacuum Pump for Air Removal

- 1 As shown in figure on the right, remove the cap of valve head and valve core and then connect them to the vacuum pump and manifold valve.
- 2 Fully tighten the "Hi" shuttle of the manifold valve and completely unscrew the "Lo" shuttle. Run the vacuum pump for about 10~15 minutes, then completely tighten the "Lo" shuttle and switch off the vacuum pump.
- 3 Completely unscrew the spindle of the service valve (at 2 places) in anti-clockwise direction to allow the flow of coolant (using Hexagonal Wrench key).
- 4 Remove the Charge hose and tighten the cap of valve head. The task is then completed.

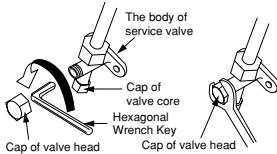


Gas Leakage Inspection

Please use gas leakage detector to check if leakage occurs at the connection of Flare nut as shown on the right.



If gas leakage occurs, further tighten the connection to stop leakage. (Use the detector provided for R410A)



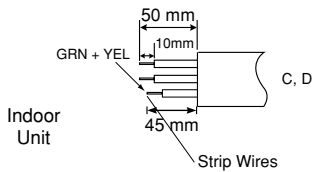
CAUTION

In case of removing Flare nut of a indoor unit, first remove a nut of small diameter side, or a seal cap of big diameter side will fly out.

WARNING THIS APPLIANCE MUST BE EARTHED.

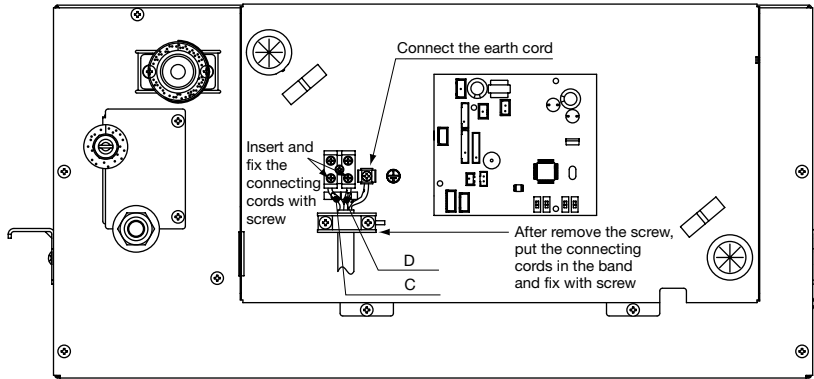
Power supply shall be connected at the rated voltage, otherwise the unit will be broken or could not reach the specified capacity.

Procedures of Wiring



Wiring Of The Indoor Unit

- (1) Remove the cover of the electric box.
- (2) Connect the connecting cords.
- (3) Assemble the cover of electric box.



Checking for the electric source and the voltage range

- Before installation, the power source must be checked and necessary wiring work must be completed. To make the wiring capacity proper, use the wire gauge list below for the wiring from a switch board of fuse box to the outdoor unit in consideration of the locked rotor current.

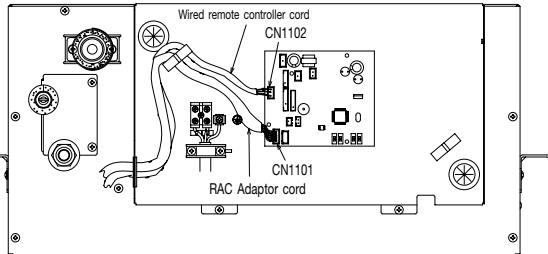
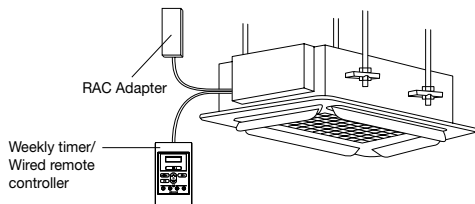
IMPORTANT

Cable length	Wire cross-section
up to 6m	1.5mm <sup>2</sup>
up to 15m	2.5mm <sup>2</sup>
up to 25m	4.0mm <sup>2</sup>

IMPORTANT

Fuse Capacity
16A time delay fuse

How To Connect The Optional Parts (RAC Adapter, Weekly Timer, Wired Remote Control)



H-LINK

[For all optional part, please refer catalog for part number]

As for connecting to H-Link, a separately purchased RAC Adapter is required.

- To install the wiring the electrical box cover must be opened.
- Connect the connector of RAC adapter to CN1101.
- Assemble back the cover of electrical box.
- Please refer to the respective user manual of RAC Adapter for further details.
- Please be careful not to damage lead wires by edge of plate when connecting the optional parts.

WEEKLY TIMER / WIRED REMOTE CONTROLLER

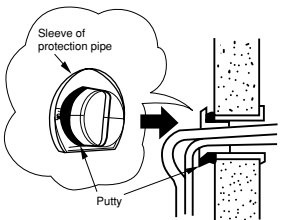
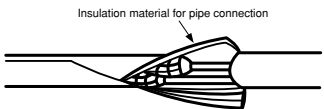
[For all optional part, please refer catalog for part number]

Connection to the electrical box:

- Remove the cover of electrical box.
- Connect the connector of Weekly Timer/wired remote controller to CN1102.
- Assemble back the cover of electrical box.
- Please refer to the respective user manual of Weekly Timer/wired remote controller for further details.
- Please be careful not to damage lead wires by edge of plate when connecting the optional parts.

1 Insulation And Maintenance Of Pipe Connection

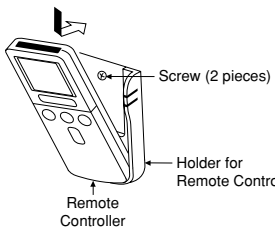
- The connected terminals should be completed sealed with heat insulator and then tied up with rubber strap.
- Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and Outdoor units. Then fix their position with holders.
- To enhance the heat insulation and to prevent water condensation, please cover the outdoor part of the drain hose and pipe with insulation pipe.
- If room humidity is high, cover the connecting pipe with additional 5mm thickness insulator. This insulator shall be purchased from field.
- Completely seal any gap with putty.



2 Installation Of Remote Control

- The remote controller can be placed in its holder which is fixed on wall or beam.
- To operate the remote controller at its holder, please ensure that the unit can receive signal transmitted from the controller at the place where the holder is to be fixed. The unit will beep when signal is received from the remote controller. The signal transmission is weakened by the florescent light. Therefore, during the installation of the remote control holder, please switch on the light, even during day time, to determine the mounting location of the holder.

The controller must be hooked onto the hook at the lower part of the holder. Push in the remote controller in the direction as shown in figure below.



3 Power Source And Operation Test

Power Source

CAUTION

- Please make sure, that the power voltage is 220V-240V within the operation voltage of the unit.
- Please take under consideration, that the power capacity from your house distribution box is high enough for operating your room air conditioner.

Operation Test

- Please ensure that the air conditioner is in normal operating condition during the operation test.
- Explain to your customer the proper operation procedures as described in the user's manual.

4 Installation Of Optional Panel

- Carefully read through the procedures of proper installation before starting installation work.